Claims:



- 1. Method for filling a filling compound on synthetic resin basis into the cavity of a tooth, **characterised in that** the filling compound is subjected to the action of sound, especially ultrasound, during the filling process.
- 2. The method as defined in Claim 1, **characterised in that** the filling compound is filled into the cavity using a nozzle (12) and that the nozzle (12) is subjected to the action of sound, especially ultrasound, during that process.
- 3. Hand-held device for filling a filling compound on synthetic resin basis from a supply container (9) into a cavity of a tooth using a nozzle (12) from which the filling compound is ejected, having means (4, 5, 6) for conveying the filling compound from the supply container (9) to the nozzle (12), and having a handle portion (3), characterised in that the hand-held device comprises a sound generator, especially an ultrasound generator (13) that sets the nozzle (12) into oscillation.
- 4. The hand-held device as defined in Claim 3, **characterised in that** the nozzle (12) is a short small tube.



- The hand-held device as defined in Claim 3 or Claim 4, **characterised in that** the supply container (9) sits exchangeably in a holder (2) and that the sound generator (13) is coupled to the holder (2) in oscillation-transmitting fashion.
- 6. The hand-held device as defined in any of Claims 3 to 5, characterised

in that the sound generator (13) comprises a piezoelectric oscillator.

- 7. The hand-held device as defined in any of Claims 3 to 5, **characterised** in that the sound generator (13) comprises a magnetostrictive oscillator.
- 8. The hand-held device as defined in any of Claims 3 to 5, **characterised** in that the sound generator comprises a pneumatically excited oscillator.
- 9. The hand-held device as defined in any of Claims 3 to 8, **characterised** in that a common actuating element (4) is provided for the sound generator (13) and the conveying means (4, 5, 6).
- 10. The hand-held device as defined in any of Claims 3 to 9, **characterised** in that it is configured in the way of a spray gun.
- 11. The hand-held device as defined in any of Claims 3 to 9, **characterised in that** it is configured in the way of a dentist's handpiece.
- 12. The hand-held device as defined in Claim 10 or Claim 11, **characterised in that** it comprises a lever or a push button as actuating element (4).